

Amendments to the Claims

1. (Currently Amended) A method for serial data communication which transmits and receives data in two-way, comprising:

transmitting data and a clock signal from a first control unit to a second control unit, at the same time checking a reception confirmation signal of the second control unit by the first control unit; and

transmitting data and a clock signal from the second control unit to the first control unit, at the same time checking a reception confirmation signal of the first control unit by the second control unit; and

receiving the data and the clock signal from the second control unit by the first control unit, at the same time checking a transmission confirmation signal of the second control unit by the first control unit.

2. (Currently Amended) The method according to claim 1, wherein said data transmission process further includes the steps of:

(a) confirming whether data was received, starting the data transmission with a data transmission start signal, and receiving the reception confirmation signal from the second control unit;

(b) recognizing the data reception of the second control unit, and reversing the transmission start signal in order to transmit a next data;

(c) transmitting a transmission permission signal which permits the next

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data transmission to the first control unit by the second control unit; and

(d) feedback-receiving the transmission permission signal.

3. (Currently Amended) The method according to claim 1, wherein said data reception process further includes the steps of:

(a) receiving a first data from the second control unit and ~~feedback-~~
~~performing feeding back~~ a signal for informing of the reception;

(b) receiving a preparation signal for informing of a next data
transmission from the second control unit;

(c) transmitting ~~a~~ the data transmission permission signal to the second
control unit; and

(d) transmitting the next data ~~from~~ on the second control unit after
feedback-receiving the data transmission permission signal.

4. (Currently Amended) The method according to claim 2, wherein a
~~size~~ the number of the transmitted data is adjusted voluntarily in accordance
with communication circumstances, and is determined in accordance with a
data processing unit of the second control unit.

5. (Original) The method according to claim 2, wherein a transmission
error occurs when the reception confirmation signal is not received.

6. (Currently Amended) The method according to claim 2, wherein a point of input time of the feedback signal which informs of the data reception and processing of the ~~other~~ first control unit is set in accordance with a processing rate of the second control unit.

7. (Original) The method according to claim 2, wherein the transmitting process of the data reception confirmation signal and the data transmission permission signal is performed more than two times.

8. (Currently Amended) An apparatus for serial data communication, comprising:

two control units connected to each other, each of said control units for transmitting data to the other with a data transmission start signal ~~inat~~ a data transmission mode, performing repeatedly ~~at~~ the data transmission process which feedback-receives a feedback data transmission permission signal and a reception permission signal from one control unit to the other control unit and transmits the data, and transmitting repeatedly ~~at~~ the data reception confirmation signal and the data transmission permission signal from one control unit to the other control unit;

four serial buses for performing serial data transmission between the two

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control units;

two pull-up operation units for maintaining a control voltage level of the
serial buses at a certain level; and

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a control voltage matching unit for continuing a voltage equilibrium
condition by muting excessive voltage at grounding side when the control
voltage level does not coincide with the serial bus due to an operation voltage
difference of the pull-up operation units.
